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NOTICE OF ALLOWANCE AND FEE(S) DUE

22850 7590 03/23/2010

OBLON, SPIVAK, MCCLELLAND MAIER & NEUSTADT, L.L.P.
1940 DUKE STREET
ALEXANDRIA, VA 22314

EXAMINER

LAU, JONATHAN S

ART UNIT

PAPER NUMBER

1623

DATE MAILED: 03/23/2010

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
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10/764,989

01/26/2004

Sigrid Buhler

272748US0

6777

TITLE OF INVENTION: NOVEL PHOTOLABILE PROTECTIVE GROUPS FOR IMPROVED PROCESSES TO PREPARE OLIGONUCLEOTIDE ARRAYS

APPLN. TYPE	SMALL ENTITY	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	NO	\$1510	\$300	\$0	\$1810	06/23/2010

THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATENT. PROSECUTION ON THE MERITS IS CLOSED. THIS NOTICE OF ALLOWANCE IS NOT A GRANT OF PATENT RIGHTS. THIS APPLICATION IS SUBJECT TO WITHDRAWAL FROM ISSUE AT THE INITIATIVE OF THE OFFICE OR UPON PETITION BY THE APPLICANT. SEE 37 CFR 1.313 AND MPEP 1308.

THE ISSUE FEE AND PUBLICATION FEE (IF REQUIRED) MUST BE PAID WITHIN THREE MONTHS FROM THE MAILING DATE OF THIS NOTICE OR THIS APPLICATION SHALL BE REGARDED AS ABANDONED. THIS STATUTORY PERIOD CANNOT BE EXTENDED. SEE 35 U.S.C. 151. THE ISSUE FEE DUE INDICATED ABOVE DOES NOT REFLECT A CREDIT FOR ANY PREVIOUSLY PAID ISSUE FEE IN THIS APPLICATION. IF AN ISSUE FEE HAS PREVIOUSLY BEEN PAID IN THIS APPLICATION (AS SHOWN ABOVE), THE RETURN OF PART B OF THIS FORM WILL BE CONSIDERED A REQUEST TO REAPPLY THE PREVIOUSLY PAID ISSUE FEE TOWARD THE ISSUE FEE NOW DUE.

HOW TO REPLY TO THIS NOTICE:

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If the SMALL ENTITY is shown as YES, verify your current SMALL ENTITY status:

A. If the status is the same, pay the TOTAL FEE(S) DUE shown above.

B. If the status above is to be removed, check box 5b on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and twice the amount of the ISSUE FEE shown above, or

If the SMALL ENTITY is shown as NO:

A. Pay TOTAL FEE(S) DUE shown above, or

B. If applicant claimed SMALL ENTITY status before, or is now claiming SMALL ENTITY status, check box 5a on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and 1/2 the ISSUE FEE shown above.

II. PART B - FEE(S) TRANSMITTAL, or its equivalent, must be completed and returned to the United States Patent and Trademark Office (USPTO) with your ISSUE FEE and PUBLICATION FEE (if required). If you are charging the fee(s) to your deposit account, section "4b" of Part B - Fee(s) Transmittal should be completed and an extra copy of the form should be submitted. If an equivalent of Part B is filed, a request to reapply a previously paid issue fee must be clearly made, and delays in processing may occur due to the difficulty in recognizing the paper as an equivalent of Part B.

III. All communications regarding this application must give the application number. Please direct all communications prior to issuance to Mail Stop ISSUE FEE unless advised to the contrary.

IMPORTANT REMINDER: Utility patents issuing on applications filed on or after Dec. 12, 1980 may require payment of maintenance fees. It is patentee's responsibility to ensure timely payment of maintenance fees when due.

PART B - FEE(S) TRANSMITTAL

**Complete and send this form, together with applicable fee(s), to: Mail Mail Stop ISSUE FEE
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INSTRUCTIONS: This form should be used for transmitting the ISSUE FEE and PUBLICATION FEE (if required). Blocks 1 through 5 should be completed where appropriate. All further correspondence including the Patent, advance orders and notification of maintenance fees will be mailed to the current correspondence address as indicated unless corrected below or directed otherwise in Block 1, by (a) specifying a new correspondence address; and/or (b) indicating a separate "FEE ADDRESS" for maintenance fee notifications.

CURRENT CORRESPONDENCE ADDRESS (Note: Use Block 1 for any change of address)

22850 7590 03/23/2010

Note: A certificate of mailing can only be used for domestic mailings of the Fee(s) Transmittal. This certificate cannot be used for any other accompanying papers. Each additional paper, such as an assignment or formal drawing, must have its own certificate of mailing or transmission.

OBLON, SPIVAK, MCCLELLAND MAIER & NEUSTADT, L.L.P.
1940 DUKE STREET
ALEXANDRIA, VA 22314

Certificate of Mailing or Transmission

Hereby certify that this Fee(s) Transmittal is being deposited with the United States Postal Service with sufficient postage for first class mail in an envelope addressed to the Mail Stop ISSUE FEE address above, or being facsimile transmitted to the USPTO (571) 273-2885, on the date indicated below.

(Depositor's name)
(Signature)
(Date)

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
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10/764,989 01/26/2004 Sigrid Buhler 272748US0 6777

TITLE OF INVENTION: NOVEL PHOTOLABILE PROTECTIVE GROUPS FOR IMPROVED PROCESSES TO PREPARE OLIGONUCLEOTIDE ARRAYS

APPLN. TYPE	SMALL ENTITY	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE FEE	TOTAL FEE(S) DUE	DATE DUE
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nonprovisional NO \$1510 \$300 \$0 \$1810 06/23/2010

EXAMINER	ART UNIT	CLASS-SUBCLASS
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LAU, JONATHAN S 1623 558-275000

1. Change of correspondence address or indication of "Fee Address" (37 CFR 1.363).

- ☐ Change of correspondence address (or Change of Correspondence Address form PTO/SB/122) attached.
- ☐ "Fee Address" indication (or "Fee Address" Indication form PTO/SB/47; Rev 03-02 or more recent) attached. **Use of a Customer Number is required.**

2. For printing on the patent front page, list

- (1) the names of up to 3 registered patent attorneys or agents OR, alternatively, 1 _____
- (2) the name of a single firm (having as a member a registered attorney or agent) and the names of up to 2 registered patent attorneys or agents. If no name is listed, no name will be printed. 2 _____
- 3 _____

3. ASSIGNEE NAME AND RESIDENCE DATA TO BE PRINTED ON THE PATENT (print or type)

PLEASE NOTE: Unless an assignee is identified below, no assignee data will appear on the patent. If an assignee is identified below, the document has been filed for recordation as set forth in 37 CFR 3.11. Completion of this form is NOT a substitute for filing an assignment.

(A) NAME OF ASSIGNEE (B) RESIDENCE: (CITY and STATE OR COUNTRY)

Please check the appropriate assignee category or categories (will not be printed on the patent) : ☐ Individual ☐ Corporation or other private group entity ☐ Government

4a. The following fee(s) are submitted:

- ☐ Issue Fee
- ☐ Publication Fee (No small entity discount permitted)
- ☐ Advance Order - # of Copies _____

4b. Payment of Fee(s); (Please first reapply any previously paid issue fee shown above)

- ☐ A check is enclosed.
- ☐ Payment by credit card. Form PTO-2038 is attached.
- ☐ The Director is hereby authorized to charge the required fee(s), any deficiency, or credit any overpayment, to Deposit Account Number _____ (enclose an extra copy of this form).

5. Change in Entity Status (from status indicated above)

- ☐ a. Applicant claims SMALL ENTITY status. See 37 CFR 1.27. ☐ b. Applicant is no longer claiming SMALL ENTITY status. See 37 CFR 1.27(g)(2).

NOTE: The Issue Fee and Publication Fee (if required) will not be accepted from anyone other than the applicant; a registered attorney or agent; or the assignee or other party in interest as shown by the records of the United States Patent and Trademark Office.

Authorized Signature _____

Date _____

Typed or printed name _____

Registration No. _____

This collection of information is required by 37 CFR 1.311. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 12 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, Virginia 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, Virginia 22313-1450.

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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/764,989	01/26/2004	Sigrid Buhler	272748US0	6777
22850	7590	03/23/2010	EXAMINER	
OBLON, SPIVAK, MCCLELLAND MAIER & NEUSTADT, L.L.P. 1940 DUKE STREET ALEXANDRIA, VA 22314			LAU, JONATHAN S	
			ART UNIT	PAPER NUMBER
			1623	
DATE MAILED: 03/23/2010				

Determination of Patent Term Adjustment under 35 U.S.C. 154 (b) (application filed on or after May 29, 2000)

The Patent Term Adjustment to date is 180 day(s). If the issue fee is paid on the date that is three months after the mailing date of this notice and the patent issues on the Tuesday before the date that is 28 weeks (six and a half months) after the mailing date of this notice, the Patent Term Adjustment will be 180 day(s).

If a Continued Prosecution Application (CPA) was filed in the above-identified application, the filing date that determines Patent Term Adjustment is the filing date of the most recent CPA.

Applicant will be able to obtain more detailed information by accessing the Patent Application Information Retrieval (PAIR) WEB site (<http://pair.uspto.gov>).

Any questions regarding the Patent Term Extension or Adjustment determination should be directed to the Office of Patent Legal Administration at (571)-272-7702. Questions relating to issue and publication fee payments should be directed to the Customer Service Center of the Office of Patent Publication at 1-(888)-786-0101 or (571)-272-4200.

Notice of Allowability	Application No.	Applicant(s)	
	10/764,989	BUHLER ET AL.	
	Examiner	Art Unit	
	Jonathan S. Lau	1623	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. ☒ This communication is responsive to Applicant's Amendment and Remarks, filed 30 Dec 2009 and 10 Mar 2010.
2. ☒ The allowed claim(s) is/are 1,3-17,24,25 and 30-57.
3. ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
 - a) ☐ All b) ☐ Some* c) ☐ None of the:
 1. ☐ Certified copies of the priority documents have been received.
 2. ☐ Certified copies of the priority documents have been received in Application No. ____.
 3. ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).
 - * Certified copies not received: ____.

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.

THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.

4. ☐ A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.
5. ☐ CORRECTED DRAWINGS (as "replacement sheets") must be submitted.
 - (a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached
 - 1) ☐ hereto or 2) ☐ to Paper No./Mail Date ____.
 - (b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date ____.

Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).
6. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

Attachment(s)

- | | |
|--|---|
| <ol style="list-style-type: none"> 1. <input type="checkbox"/> Notice of References Cited (PTO-892) 2. <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) 3. <input type="checkbox"/> Information Disclosure Statements (PTO/SB/08),
Paper No./Mail Date ____ 4. <input type="checkbox"/> Examiner's Comment Regarding Requirement for Deposit
of Biological Material | <ol style="list-style-type: none"> 5. <input type="checkbox"/> Notice of Informal Patent Application 6. <input type="checkbox"/> Interview Summary (PTO-413),
Paper No./Mail Date ____. 7. <input checked="" type="checkbox"/> Examiner's Amendment/Comment 8. <input checked="" type="checkbox"/> Examiner's Statement of Reasons for Allowance 9. <input type="checkbox"/> Other ____. |
|--|---|

/Shaojia Anna Jiang/
Supervisory Patent Examiner, Art Unit 1623

EXAMINER'S AMENDMENT

An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

Authorization for this examiner's amendment was given in a telephone interview with Stefan Koschmieder on 11 Mar 2010.

The application has been amended as follows:

Amendment to the Claims

Claims 1, 12, 30 and 39 are amended to correct a misspelling:

- Claim 1 at page numbered 3, line 3, replace "phosphitamidite" with "phosphoramidite".
- Claim 12 at line 2, replace "phosphitamidite" with "phosphoramidite".
- Claim 30 at page numbered 8, line 14, replace "phosphitamidite" with "phosphoramidite".
- Claim 39 at line 2, replace "phosphitamidite" with "phosphoramidite".

DETAILED ACTION

This Office Action is responsive to Applicant's Amendment and Remarks, filed 30 Dec 2009, in which claims 1, 6 and 30 are amended and new claims 47-57 are added, and Applicant's Supplemental Amendment and Remarks, filed 10 Mar 2010, in which claims 1, 24, 25 and 30 are amended to change the scope and breadth of the claim, claims 12 and 39 are amended to change the phrasing of the claim, and claims 18-23 and 26-29 are canceled.

Applicant's Supplemental Amendment and Remarks, filed 10 Mar 2010, has been entered because the supplemental reply is clearly limited to placement of the application in condition for allowance.

This application is a domestic application, filed 26 Jan 2004; and claims benefit of provisional application 60/449,070, filed 21 Feb 2003.

Claims 1, 3-17, 24, 25, and 30-57 are pending in the current application. Claims 24 and 25, drawn to non-elected inventions, are rejoined herein. Claims 1, 3-17, 24, 25, and 30-57 are allowed herein.

Election/Restrictions

Claims 1, 3-17 and 30-57 are directed to an allowable product. Pursuant to the procedures set forth in MPEP § 821.04(B), claims 24 and 25, directed to the process of

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making or using an allowable product, previously withdrawn from consideration as a result of a restriction requirement, are hereby rejoined and fully examined for patentability under 37 CFR 1.104.

Because a claimed invention previously withdrawn from consideration under 37 CFR 1.142 has been rejoined, **the restriction requirement between groups I-III and VI as set forth in the Office action mailed on 6 Jun 2006 is hereby withdrawn.** In view of the withdrawal of the restriction requirement as to the rejoined inventions, applicant(s) are advised that if any claim presented in a continuation or divisional application is anticipated by, or includes all the limitations of, a claim that is allowable in the present application, such claim may be subject to provisional statutory and/or nonstatutory double patenting rejections over the claims of the instant application. Once the restriction requirement is withdrawn, the provisions of 35 U.S.C. 121 are no longer applicable. See *In re Ziegler*, 443 F.2d 1211, 1215, 170 USPQ 129, 131-32 (CCPA 1971). See also MPEP § 804.01.

REASONS FOR ALLOWANCE

The following is an examiner's statement of reasons for allowance:

Rejections Withdrawn

Applicant's Amendment and Remarks, filed 30 Dec 2009 and 10 Mar 2010, with respect to claims 1, 3-17 and 30-46 rejected under 35 U.S.C. § 112, first paragraph as failing to comply with the written description requirement has been fully considered and is persuasive, as amended claims 1 and 30 do not recite "functional group useful in

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oligonucleotide synthesis," "chemical modifications thereof," "chemically modified," and "analog" used to describe a chemical compound and Applicant's remarks are persuasive with regard to the terms "substituted," "leaving group," "photolabile protective group" and protective group within the context of the instant invention.

This rejection has been **withdrawn**.

Applicant's Amendment and Remarks, filed 30 Dec 2009 and 10 Mar 2010, with respect to claims 1, 3-17 and 30-46 rejected under 35 U.S.C. 112, second paragraph, as being indefinite has been fully considered and is persuasive, as amended claims 1 and 30 do not recite "functional group useful in oligonucleotide synthesis," "chemical modifications thereof," "chemically modified," and "analog" used to describe a chemical compound and Applicant's remarks are persuasive with regard to the terms "substituted," "leaving group," "photolabile protective group" and protective group within the context of the instant invention.

This rejection has been **withdrawn**.

Applicant's Amendment and Remarks, filed 30 Dec 2009 and 10 Mar 2010, with respect to claims 1, 3, 5 and 7-17 rejected under 35 U.S.C. 103(a) as being unpatentable over Pfeiderer et al. (US Patent 5,763,599, issued 09 Jun 1998, of record) and Fodor et al. (US Patent 5,489,678, issued 06 Feb 1996, of record) in view of in view of Walbert et al. (Helvetica Chimica Acta, 2001, 6, p1601-1611, of record) and Forbes et al. (Can. J. Chem. 1958, 36, p869-878, of record) and Wagner (J. Am. Chem. Soc.

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1967, 89(12), p2820-2825) and Adam et al. (J. Chem. Soc. 1930, p202-206, of record) has been fully considered and is persuasive, as Applicant's remarks are persuasive that Pfeleiderer et al. and Fodor et al. in view of Walbert et al. and Forbes et al. and Wagner and Adam et al. does not provide sufficient guidance to one of ordinary skill in the art to pick and choose to combine the teachings such that the instant invention is rendered obvious. MPEP 2144.08 provides guidance regarding patentability of a claim to a specific subgenus embraced by a prior art genus. While Walbert et al. and Forbes et al. and Wagner and Adam et al. are relied upon to teach the level of ordinary skill in the pertinent art, the Applicant is persuasive that the factors size of the prior art genus taught by Fodor et al. in the absence of express teaching of a particular reason to select the claimed species or subgenus outweigh any teachings of similar uses or predictability of the technology and render the instant invention as claimed non-obvious.

This rejection has been **withdrawn**.

Applicant's Amendment and Remarks, filed 30 Dec 2009 and 10 Mar 2010, with respect to claims 1 and 6 rejected under 35 U.S.C. 103(a) as being unpatentable over Pfeleiderer et al. (US Patent 5,763,599, issued 09 Jun 1998, of record) and Fodor et al. (US Patent 5,489,678, issued 06 Feb 1996, of record) in view of in view of Walbert et al. (Helvetica Chimica Acta, 2001, 6, p1601-1611, of record) and Forbes et al. (Can. J. Chem. 1958, 36, p869-878, of record) and Wagner (J. Am. Chem. Soc. 1967, 89(12), p2820-2825) and Adam et al. (J. Chem. Soc. 1930, p202-206, of record) and further in view of Berlin (DE19938092, published 22 Feb 2001, of record) has been fully

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considered and is persuasive, as Applicant's remarks are persuasive that Pfleiderer et al. and Fodor et al. in view of Walbert et al. and Forbes et al. and Wagner and Adam et al. as discussed above and Berlin does not remedy the deficiency.

This rejection has been **withdrawn**.

Applicant's Amendment and Remarks, filed 30 Dec 2009 and 10 Mar 2010, with respect to claims 30-32 and 34-46 rejected under 35 U.S.C. 103(a) as being unpatentable over Pfleiderer et al. (US Patent 5,763,599, issued 09 Jun 1998, of record) in view of Haugland et al. (US Patent 5,635,608, issued 03 Jun 1997, of record) in view of Walbert et al. (Helvetica Chimica Acta, 2001, 6, p1601-1611, of record) and Forbes et al. (Can. J. Chem. 1958, 36, p869-878, of record) has been fully considered and is persuasive, as Applicant's remarks are persuasive that Pfleiderer et al. in view of Haugland et al. in view of Walbert et al. and Forbes et al. does not provide sufficient guidance to one of ordinary skill in the art to selectively combine the teachings so as to render the instant invention obvious. Analyzed in accordance with MPEP 2144.08, Applicant is persuasive that the factors size of the prior art genus taught by Haugland et al. in the absence of express teaching of a particular reason to select the claimed species or subgenus outweigh any teachings of similar uses or predictability of the technology and render the instant invention as claimed non-obvious.

This rejection has been **withdrawn**.

Applicant's Amendment and Remarks, filed 30 Dec 2009 and 10 Mar 2010, with respect to claims 30 and 33 rejected under 35 U.S.C. 103(a) as being unpatentable over Pfeiderer et al. (US Patent 5,763,599, issued 09 Jun 1998, of record) in view of Haugland et al. (US Patent 5,635,608, issued 03 Jun 1997, of record) in view of Walbert et al. (Helvetica Chimica Acta, 2001, 6, p1601-1611, of record) and Forbes et al. (Can. J. Chem. 1958, 36, p869-878, of record) and further in view of Berlin (DE19938092, published 22 Feb 2001, of record) has been fully considered and is persuasive, as Applicant's remarks are persuasive that Pfeiderer et al. in view of Haugland et al. in view of Walbert et al. and Forbes et al. as discussed above and Berlin does not remedy the deficiency.

This rejection has been **withdrawn**.

The closest prior art is Pfeiderer et al. and Fodor et al. in view of Walbert et al. and Forbes et al. and Wagner and Adam et al., or Pfeiderer et al. in view of Haugland et al. in view of Walbert et al. and Forbes et al. as discussed above.

Applicant's Remarks, filed 30 Dec 2009, are persuasive that the factors size of the prior art genus in the absence of express teaching of a particular reason to select the claimed species or subgenus outweigh any teachings of similar uses or predictability of the technology and render the instant invention as claimed non-obvious. Applicant's remarks are persuasive that the prior art does not provide sufficient guidance to one of ordinary skill in the art to pick and choose to combine the teachings such that the instant invention is rendered obvious.

Therefore the instant invention as claimed is not taught or fairly suggested by the prior art.

Conclusion

Claims 1, 3-17, 24, 25, and 30-57 are allowed in view of Applicant's Supplemental Amendment, filed 10 Mar 2010, and the Examiner's Amendment detailed herein.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Jonathan S. Lau whose telephone number is 571-270-3531. The examiner can normally be reached on Monday - Thursday, 9 am - 4 pm EST.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Shaojia Anna Jiang can be reached on 571-272-0627. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

Jonathan Lau
Patent Examiner
Art Unit 1623

/Shaojia Anna Jiang/
Supervisory Patent Examiner
Art Unit 1623